



UNITED STATES PATENT AND TRADEMARK OFFICE

A

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,334	01/05/2005	Tetsuro Shiota	MAT-8648US	5110
23122	7590	02/02/2006	EXAMINER	
RATNERPRESTIA			LE, TUNG X	
P O BOX 980			ART UNIT	PAPER NUMBER
VALLEY FORGE, PA 19482-0980			2821	

DATE MAILED: 02/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/520,334	SHIOTA ET AL.	
	Examiner	Art Unit	
	Tung X. Le	2821	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 January 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 05 January 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>01/05/2005</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This is a response to the applicant's filing on January 05, 2005. In virtue of this filing, claims 1-14 are currently presented in the instant application.

Claim Objections

2. Claims 3 and 5 are objected to because of the following informalities:

Claim 3, line 10, --and-- should be inserted after "generating unit;".

Claim 5, line 9, "and" after "calculator;" should be deleted.

Claim 5, line 12, --and-- should be inserted after "generating unit;".

Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Ohara (U.S. 2003/0223049 A1).

With respect to claim 1, Ohara discloses in figure 1 an image display device [110] comprising a display element [125] which optically modulates an incident light for displaying a video image (see paragraph [0053]); a lamp [119] which is a light source of the incident light to the display element (see paragraph [0054]); a lamp driver [118] for

driving the lamp (see paragraph [0055]); a lamp power level calculator [127] for calculating (see paragraph [0061]) and outputting a driving power level of the lamp in accordance with a level of an input video signal [126]; and a lamp temperature controller [120] for controlling a temperature of the lamp depending on a change in an input signal from the lamp power level calculator (see paragraph [0057]) so as to change a temperature of the lamp within a predetermined range in response to fluctuation of the input video signal (see figures 2A, 2B and paragraph [0064]).

With respect to claim 2, Ohara discloses in figure 5 the lamp temperature controller [120] is a lamp driving level correcting unit for correcting a lamp driving level in response to fluctuation of the input video signal (see paragraph [0096,0097]); and the lamp driving level correcting unit comprising a lamp driving level signal integrator [124] for applying time integration to an input [126] from the lamp power level calculator [517]; and a lamp driving level corrector [512] for correcting an input signal [126] from the lamp power level calculator [517] using an input signal from the driving level signal integrator [118].

With respect to claim 3, Ohara discloses in figure 5 the lamp temperature controller [120] comprising a fan control signal [121] generating unit for controlling a number of revolutions of a fan [121] for temperature control in accordance with an input from the lamp power level calculator [517]; and a lamp temperature control fan [121] controlled by an input signal from the fan control signal generating unit; and wherein the temperature of the lamp is changed within a predetermined range by controlling the

number of revolutions of the fan in response to fluctuation of the input video signal (see paragraph [0037]).

With respect to claim 4, Ohara discloses in figure 5 the fan control signal generating unit comprising a lamp driving level signal integrator [124] for applying time integration to an input signal from the lamp power level calculator [517]; and a fan control signal generator [121] for controlling for controlling the number of revolutions of the fan in accordance with an input signal from the lamp power level calculator and an input signal from the lamp driving level signal integrator [124].

With respect to claim 5, Ohara discloses in figure 5 the lamp temperature controller [120] comprising a lamp driving level correcting unit [512] for correcting a lamp driving level [118] in response to fluctuation of the input video signal [126]; a fan control signal generating unit [120,121,124] for correcting a number of revolutions of a fan for temperature control in accordance with an input signal from the lamp power level calculator [517]; and a lamp temperature control fan [121] controlled by an input from the fan control signal generating unit [124]; and wherein the lamp driving level is corrected in response to fluctuation of the input video signal [126], and the number of revolutions of the fan is controlled in response to fluctuation of the input video signal so as to change a temperature of the lamp within a predetermined range (see paragraph [0037]).

With respect to claim 6, Ohara discloses in figure 5 the lamp driving level correcting unit comprising a lamp driving level signal integrator [126] for applying time integration to an input signal from the lamp power level calculator (see paragraph

[0100]); and a lamp driving level corrector [512] for correcting an input signal from the lamp power level calculator [517] using an input signal from the driving level signal integrator [124].

With respect to claim 7, Ohara discloses in figure 5 the fan control signal generating unit [120,121,124] comprising a lamp driving level signal integrator [124] for applying time integration to an input signal from the lamp power level calculator (see paragraph [0100]); and a fan control signal generator [121] for controlling for controlling the number of revolutions of the fan in accordance with an input signal from the lamp power level calculator and an input signal from the lamp driving level signal integrator [124].

With respect to claims 8-14, Ohara discloses in figure 1 the image display device in further comprising a projection lens [122] for projecting and displaying an image formed in the display element on a screen [123].

Citation of Relevant Prior Art

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Prior art Arimoto et al. (U.S. 6,597,118 B2) – High-Pressure Mercury Lamp Luminescent Device and Means of Ignition;

Prior art Tokunaga et al. (U.S. 6,630,796 B2) – Method and Apparatus for Driving a Plasma Display Panel;

Prior art Kubo (U.S. 6,891,338 B2) – Projector, Lamp Lighting Circuit and Lamp Lighting Control Method;

Prior art Ohara (U.S. 2005/0195327 A1) – Projection Type Display Apparatus;

Prior art Mihara (U.S. 2003/0179346 A1) – Lighting Device and Projection Type Display Apparatus using the Same;

Prior art Kida et al. (U.S. 2004/0212787 A1) – Projection Display Apparatus with Capability of Controlling Whether to Cool Lamp Depending on Lamp Temperature When Restarting Lamp; and

Prior art Taoka et al. (U.S. 2005/0213045 A1) – Projection Type Image Display Unit and Lighting Device.

Inquiry

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung X. Le whose telephone number is 571-272-6010. The examiner can normally be reached on 8:30 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

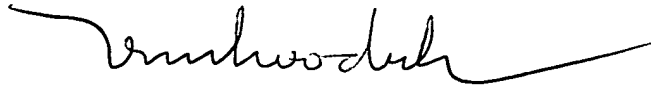
Application/Control Number: 10/520,334

Page 7

Art Unit: 2821

TRINH DINH
PRIMARY EXAMINER

Examiner
Tung Le
AU 2821

A handwritten signature in black ink, appearing to read 'Trinh Dinh', with a long horizontal flourish extending to the right.